ORDER NO. SD7603-1057

Service Manual

FM/AM Stereo Tuner

ST-7600

(X), (XG), (XGH), (XE)

TECHNICAL SPECIFICATIONS (IHF) Specifications are subject to change without notice for further improvement.

FM TUNER SECTION

Frequency range :		88~108MHz
Antenna terminals :		300Ω (balanced) 75Ω (unbalanced)
Sensitivity :		2.0 μV
Total harmonic distortion (400Hz, 100% modulation) :	MONO	0.2%
	STEREO	0.4%
S/N :		75dB
Frequency response :		20Hz~15kHz $^{+0.2}_{-0.8}$dB
Alternate channel selectivity :		75dB (NORMAL) 90dB (NARROW)
Capture ratio :		1.0dB
Image rejection (at 98MHz) :		55dB
IF rejection (at 98MHz) :		82dB
Spurious respnnse rejection (at 98MHz) :		90dB
AM suppression :		55dB
Stereo separation :		45dB at 1kHz, 35dB at 10kHz
Leak carrier (19kHz, 38kHz) :		—65dB

AM TUNER SECTION

Frequency range :	525~1605kHz
Sensitivity :	30 μV
Selectivity :	25dB
Image rejection (at 1000kHz) :	45dB
IF rejection (at 1000kHz) :	40dB

GENERAL

Output voltage :	0~0.7V
Power supply :	50/60Hz 110/120/220/240V
Power consumption :	13W
Dimensions (W×H×D) :	410×140×352mm (16 $\frac{1}{8}$″×5 $\frac{1}{2}$″×13 $\frac{7}{8}$″)
Weight :	4.9kg (10.8 lb.)

TECHNISCHE DATEN (DIN 45 500) Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.

UKW-TUNERTEIL

Empfangsbereich :		88~108MHz
Antennenanschluss :		300Ω (symmetrisch) 75Ω (asymmetrisch)
Empfindlichkeit :	2.0 μV, 30dB Fremdspannungsabstand	300Ω
	1.4 μV, 20dB Fremdspannungsabstand	300Ω
	1.0 μV, 30dB Fremdspannungsabstand	75Ω
	0.7 μV, 20dB Fremdspannungsabstand	75Ω
Fremdspannungsabstand :	MONO	68dB
	STEREO	60dB
Frequenzgang :		20Hz~15kHz, $^{+0.2}_{-0.8}$dB
Selektivität :		75dB (NORMAL) 90dB (NARROW)
Gleichwellen-Selektion :		1.0dB
Harmonische Verzerrung :	MONO 0.2%	STEREO 0.4%
Spiegelselektion bei 98MHz :		55dB
ZF-Festigkeit bei 98MHz :		82dB
Unselektivitätsfestigkeit bei 98MHz :		90dB
AM-Unterdrückung :		55dB
Stereo-Übersprechdämpfung :		45dB bei 1kHz, 35dB bei 10kHz
Trägerrest :		—65dB
Begrenzung, Einsatzpunkt :		1.2 μV
Bandbreite :	ZF-Verstärker	250kHz
	UKW-Demodulator	820kHz

MW-TUNERTEIL

Empfangsbereich :	525~1605kHz
Empfindlichkeit :	30 μV
Selektivität :	25dB
Spiegelselektion (bei 1000kHz) :	45dB
ZF-Festigkeit (bei 1000kHz) :	40dB

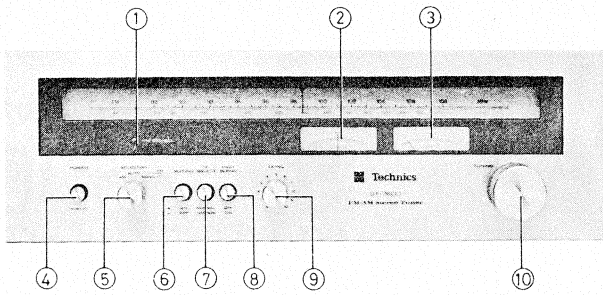
ALLGEMEINE DATEN

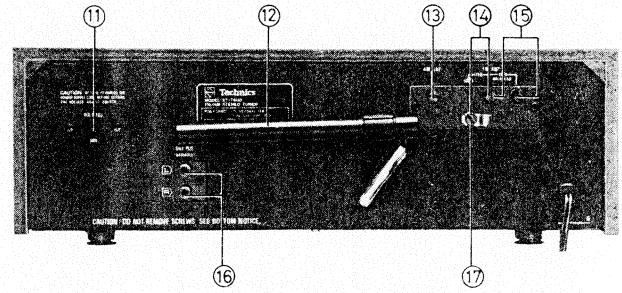
Ausgangsspannung :	0~0.7V
Leistungsaufnahme :	13W
Netzspannung umschaltbar :	110/120/220/240V
Abmessungen (B×H×T) :	410×140×352mm
Gewicht :	4.9kg

Technics

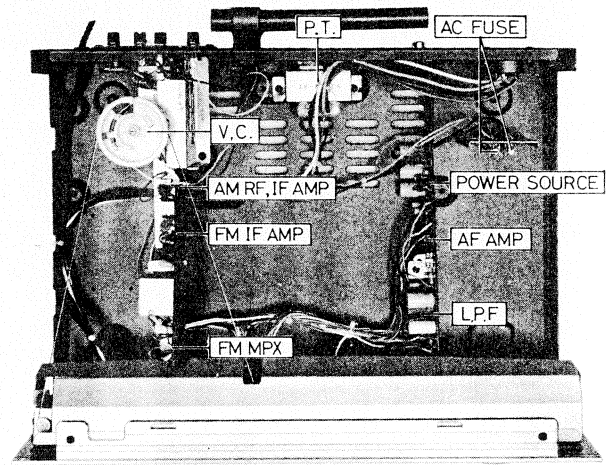
Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

■ LOCATION OF CONTROLS





① FM STEREO INDICATOR
② FM TUNING METER
③ FM/AM SIGNAL METER
④ POWER SOURCE PUSH SWITCH
⑤ BAND SELECTOR SWITCH
⑥ FM MUTING PUSH SWITCH
⑦ FM IF SELECT PUSH SWITCH
⑧ HIGH BLEND PUSH SWITCH
⑨ OUTPUT LEVEL CONTROL
⑩ TUNING CONTROL
⑪ VOLTAGE SELECTOR SWITCH
⑫ AM FERRITE ANTENNA COIL
⑬ AM ANTENNA TERMINAL
⑭ FM ANTENNA TERMINALS 75Ω
⑮ FM ANTENNA TERMINALS 300Ω
⑯ OUTPUT TERMINALS
⑰ GROUND TERMINAL



■ SERVICE AID

● FM-IF selector

· This unit includes an FM-IF selector switch which makes it possible to choose between either the usual wide band of the FM intermediate frequency ("NORMAL" position), or the "NARROW" position, at which the audio frequency characteristics are not changed and the band is narrow in order to increase selectivity.

If, at the "NORMAL" position, the difference between the desired reception frequency and the adjacent frequency is 300 kHz and the selectivity is 75 dB, selectivity can be improved to 90 dB by setting the selector to the "NARROW" position.

· This circuitry is shown in figure 2. When the selector is set to the "NORMAL" position, the FM-IF passes through CF3, and then from TR5, through C19, to TR7. From TR8 through C26, it is then applied to the IF amplifier of the next stage.

When the selector is set to the "NARROW" position, however, the transistor TR7 does not operate, because no bias is applied to its base. Conversely TR6 becomes operational when bias is applied. When a narrow-band FM-IF signal is applied, from TR4 and through the muting IFT, to TR6, TR6 becomes operational, the signal flows as described in the diagram by the symbol (- -), and the circuitry becomes narrow-band FM-IF circuitry.

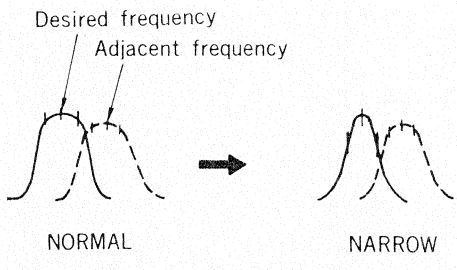


Fig. 1

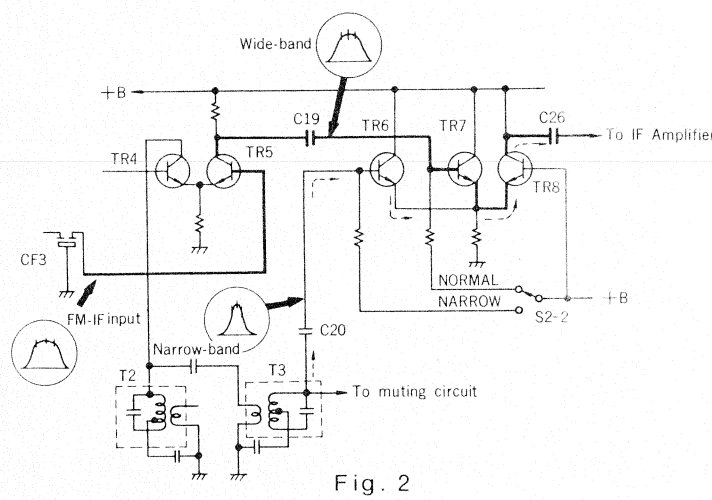
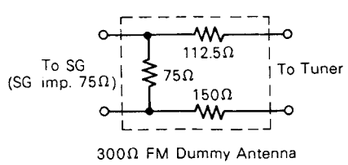


Fig. 2

■ ALIGNMENT INSTRUCTIONS

Notes :
1. Muting switch..... OFF
2. Band selector switch..... AM, FM AUTO (FM-RF, FM-IF)
3. 300Ω FM dummy antenna ..... Refer to fig. 1.
4. Maintain line voltage at rated voltage.
5. Output of signal generator should be no higher than necessary to obtain an output reading.

	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTION	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	DIAL SETTING	INDICATOR (VTVM or SCOPE) [DISTORTION METER]	ADJUSTMENT POINTS	REMARKS
	AM ALIGNMENT					
1	High side through 0.001μF to **TP6**. Common to chassis.	455kHz (Set for England to 470kHz	Point of non-inter-ference	Connect vertical ampli-fier of scope to **TP3**.	T5 (1st IFT) (P) T5 (1st IFT) (S) T6 (2nd IFT)	Adjust for maximum output.
2	Fashion loop of several turns of wire and radiate signal into loop of tuner.	550kHz (30% Mod. with 400Hz)	550kHz	Connect VTVM or scope to output terminal of set.	L7 (OSC Coil) L501 (ANT Coil)	Adjust for maximum output Adjust ferrite core of L501 by screw driver.
3	Fashion loop of several turns of wire and radiate signal into loop of tuner.	1500kHz (30% Mod. with 400Hz)	1500kHz	Connect VTVM or scope to output terminal of set.	CT5 (OSC Trimmer) CT4 (ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
	FM-IF ALIGNMENT					
4		No Signal	Point of non-inter-ference.	Connect vertical ampli-fier of scope to output terminal of set.	T1 (DISCRI IFT) (P) Brown Core	Adjust for maximum noise level.
5		No Signal	Point of non-inter-ference.	Tuning meter of set.	T1 (DISCRI IFT) (S) Green Core	Adjust for center position.
	FM-RF ALIGNMENT					
6	Connect to FM antenna terminal through FM dummy antenna. (Refer to fig. 1)	90MHz (100% Mod. with 400Hz)	90MHz	Connect VTVM or scope to output terminal of set.	L3 (OSC Coil) L2 (DET Coil) L1 (ANT Coil)	Adjust for maximum output.
7	Connect to FM antenna terminal through FM dummy antenna.	106MHz (100% Mod. with 400Hz)	106MHz	Connect VTVM or scope to output terminal of set.	CT3 (OSC Trimmer) CT2 (DET Trimmer) CT1 (ANT Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).
	FM MONO DISTORTION ALIGNMENT					
8	Connect to FM antenna terminal through FM dummy antenna.	98MHz (100% Mod. with 400Hz)	98MHz	Connect distortion meter to output terminal of set.	T1 (DISCRI IFT) (P) Brown Core	Adjust for minimum of distortion meter indication.
	SIGNAL METER ALIGNMENT					
9	Connect to FM antenna terminal through FM dummy antenna. Output level of S.G. ..... 30dB (IHF).	98MHz (30% Mod. with 400Hz)	98MHz (Input level are 18dB)	Signal meter of set.	T2 (MUTING IFT) (P)	Adjust for maximum of signal meter indi-cation.
10			98MHz (Inlet level are 18dB)	Signal meter of set.	T3 (MUTING IFT) (S)	Adjust for minimum of signal meter indi-cation.
11	Output level of S.G. ..... 72dB (IHF).		98MHz (Input level are 60dB)	Signal meter of set.	VR1	Adjust for about 4.7 point of signal meter indication.
	MUTING LEVEL ALIGNMENT					
	Note : Muting switch to ON.					
12	Connect to FM antenna terminal through FM dummy antenna. Output level of S.G. ..... 30dB (IHF).	98MHz (100% Mod. with 400Hz)	98MHz (Input level are 18dB)	Connect VTVM or scope to output terminal of set.	VR2	Adjust so that output can be obtained.



300Ω FM Dummy Antenna

Fig. 1

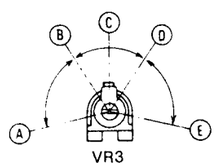


Fig. 2

Ⓐ ~ Ⓑ, Ⓓ ~ Ⓔ : Stereo OFF Position
Ⓑ ~ Ⓓ : Stereo ON Position (Indicator Lighting)
Ⓒ : Adjust Point of Pilot Circuit.

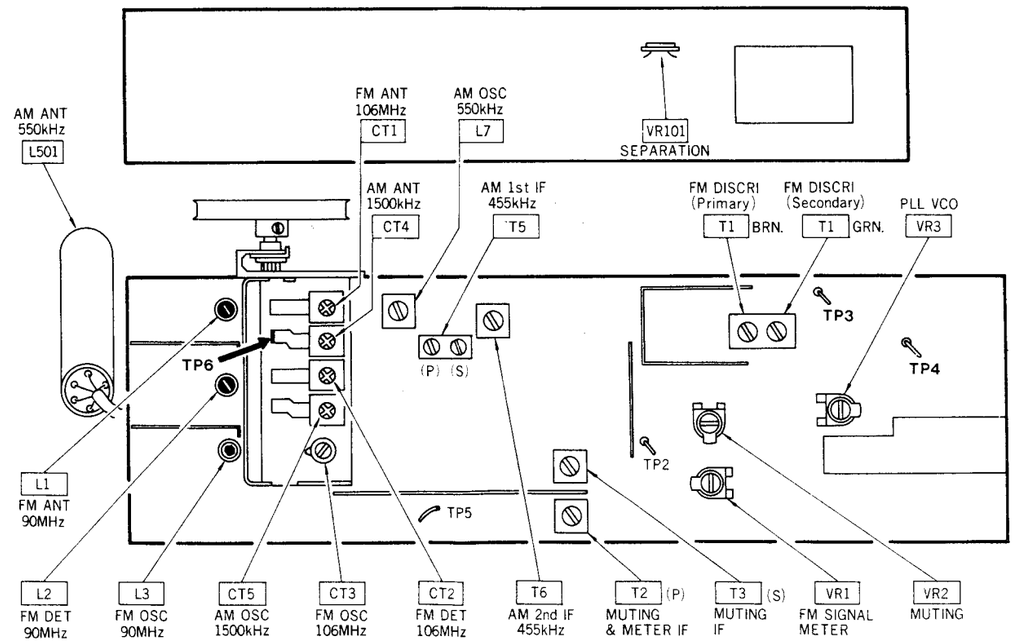
	FM MPX PILOT ALIGNMENT	
	When use the frequency counter	When not use the frequency counter
13	① 98MHz Non-modulation mono signal applied to set. ② Muting switch to ON. ③ Connect the frequency counter to **TP4** through resistor (100kΩ). ④ Adjust VR3 to 19kHz ±30Hz.	① Stereo signal applied to set or receiverthe stereo station. ② Adjust VR3 to lighting point of stereo indicator and sement contactor of VR3 as shown fig. 2.

STEREO SEPARATION ALIGNMENT

Note : 1. Stereo modulator ..... Connect stereo modulator output to EXT. MOD. terminal of signal generator.
Internal OSC ..... 1kHz Pilot signal modulation 10%
2. Signal generator..... Frequency approximately 98MHz. Output level 72dB (IHF). Modulation mode to FM.
3. Band selector switch ..... FM AUTO

	SIGNAL GENERATOR CONNECTION	STEREO MODULATOR MODE and MOD. RATE	INDICATOR (VTVM or SCOPE)	ADJUSTMENT POINTS	REMARKS
14	FM antenna terminal through dummy antenna.	L (and R) 30% Modula-tion.	Connect VTVM or scope to output terminals through low pass filter.	VR101	Adjust for minimum right (and left) output.

■ ALIGNMENT POINT



■ TO REMOVE CABINET

(1) Remove four (4) cabinet mounting screws (side) Nos 1~4, as shown in fig. 3.
(2) Remove metal fitting of cabinet from holes A and B of front panel in arrow direction ①, as shown in fig. 3.
(3) Remove cabinet from chassis in arrow direction ②, as shown in fig. 3.
(4) To reassemble, reverse above procedure.

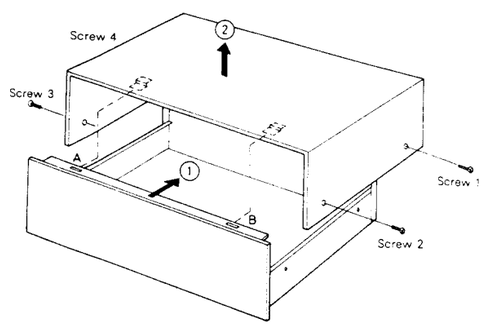
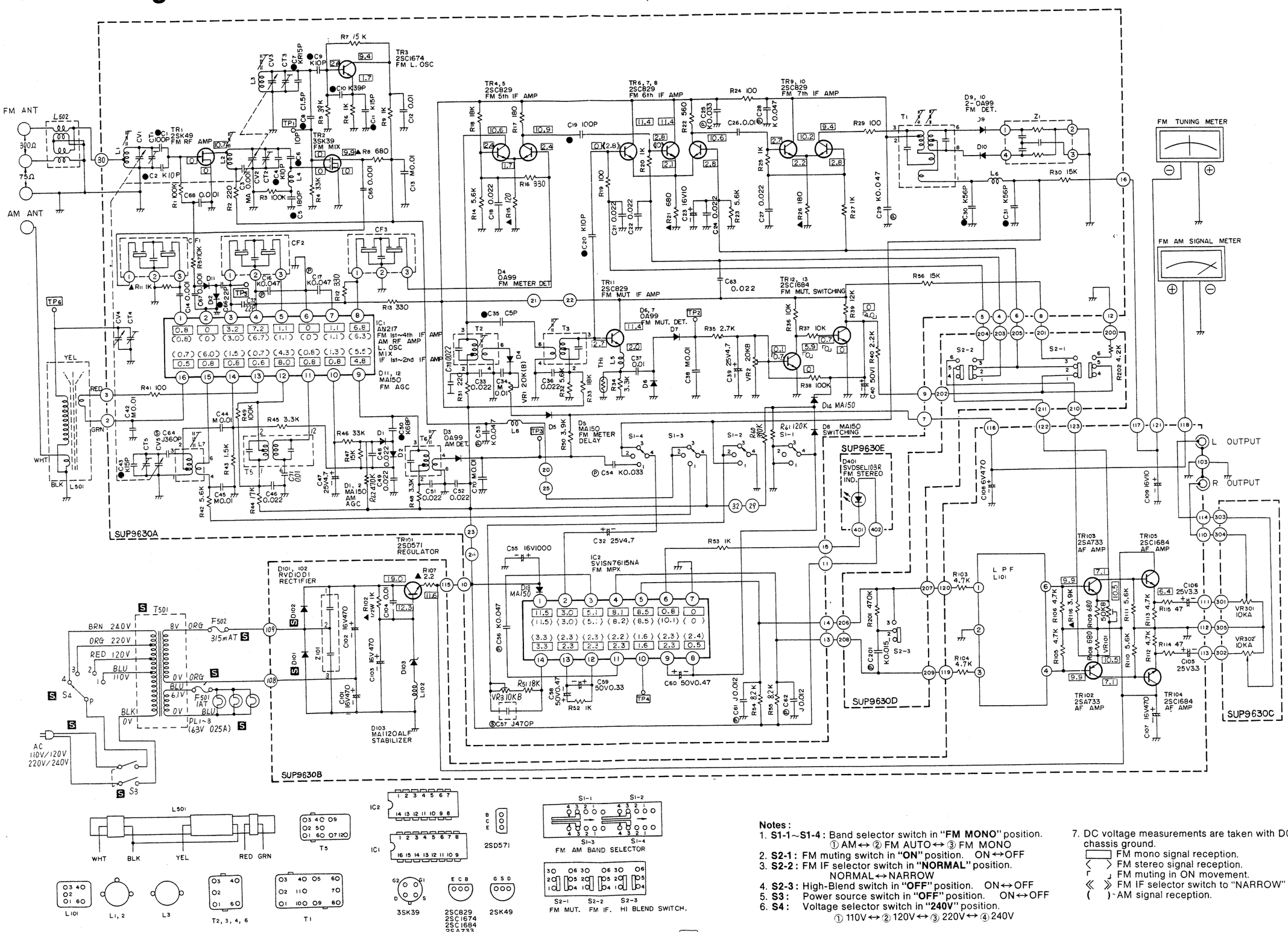


Fig. 3

Schematic Diagram.....Model ST-7600 (This schematic diagram may be modified at any time with the development of new technology.)



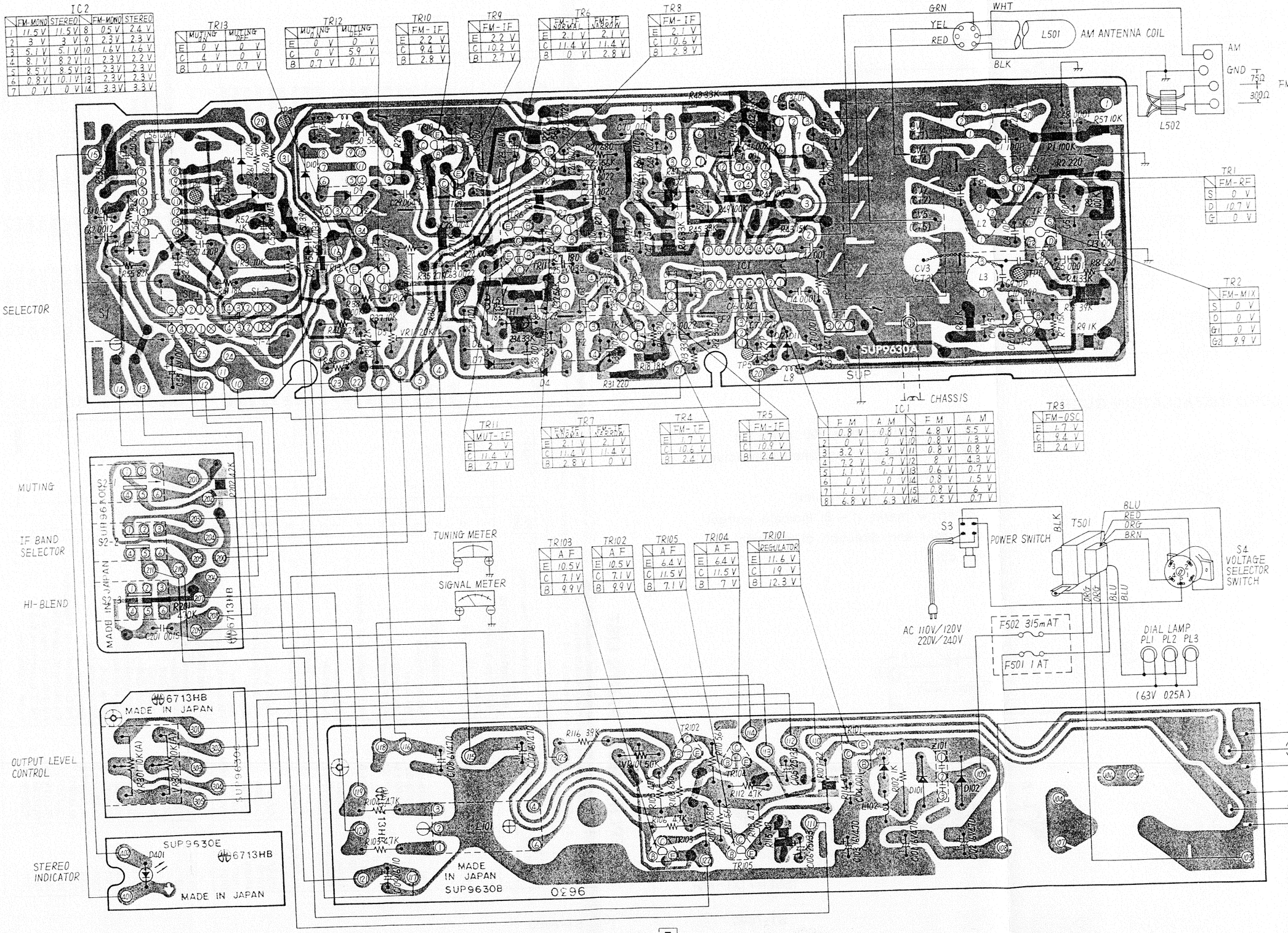
Notes :

1. **S1-1~S1-4 :** Band selector switch in **"FM MONO"** position.
   ① AM↔ ② FM AUTO↔ ③ FM MONO
2. **S2-1 :** FM muting switch in **"ON"** position. ON↔OFF
3. **S2-2 :** FM IF selector switch in **"NORMAL"** position.
   NORMAL↔NARROW
4. **S2-3 :** High-Blend switch in **"OFF"** position. ON↔OFF
5. **S3 :** Power source switch in **"OFF"** position. ON↔OFF
6. **S4 :** Voltage selector switch in **"240V"** position.
   ① 110V↔ ② 120V↔ ③ 220V↔ ④ 240V
7. DC voltage measurements are taken with DC VTVM from chassis ground.
   - ▭ FM mono signal reception.
   - 〈 〉 FM stereo signal reception.
   - ⌜ ⌟ FM muting in ON movement.
   - ≪ ≫ FM IF selector switch to "NARROW" position.
   - ( ) : AM signal reception.

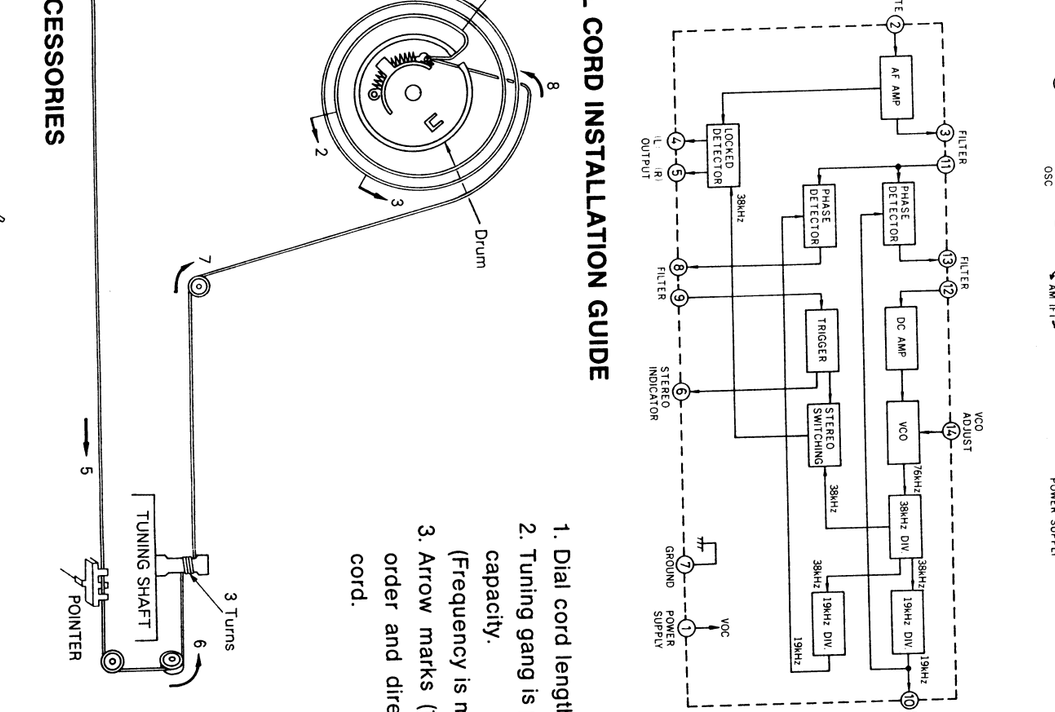
Printed Circuit Board (Bottom View) .....Model ST-7600

Printed Carbon Resistor

Circuit View on Top of P.C.B



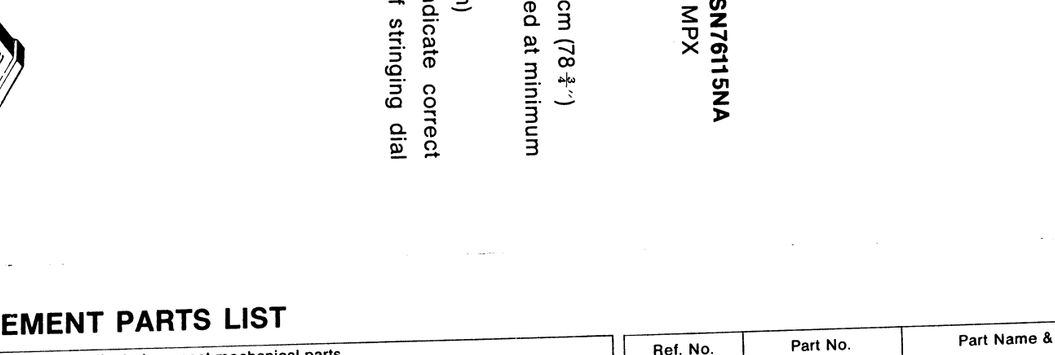
BLOCK DIAGRAM OF INTEGRATED CIRCUITS



AN217
FM-IF AMP.
AM-RF, IF AMP.

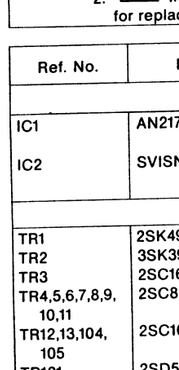
SVISN76115NA
FM MPX

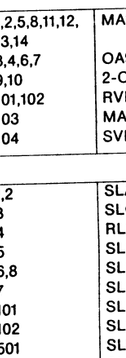
DIAL CORD INSTALLATION GUIDE

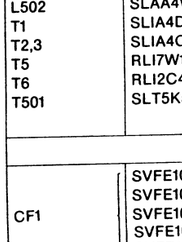


1. Dial cord length is 200 cm (78 $\frac{3}{4}$")
2. Tuning gang is positioned at minimum capacity.
   (Frequency is maximum)
3. Arrow marks (1 ~ 8) indicate correct order and direction of stringing dial cord.

ACCESSORIES







(Set for [X] only)

REPLACEMENT PARTS LIST

NOTES: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.
2. SAFETY Indicates, for safety reasons, that only parts specified in service manual be used for replacement.

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
INTEGRATED CIRCUITS					
IC1	AN217BB	FM IF Amp. & AM RF, MIX, OSC, IF Amp.	1		
IC2	SVISN76115NA	FM MPX, PLL Type	1		
TRANSISTORS					
TR1	2SK49-H2	FM RF Amplifier	1	○	
TR2	3SK39-Q2	FM Mixer	1		
TR3	2SC1674-M	FM Oscillator	1		
TR4,5,6,7,8,9, 10,11	2SC829-C1	FM IF Amplifier	8	○	
TR12,13,104, 105	2SC1684-R	Muting Switch & AF Amplifier	4	○	
TR101	2SD571-L	Regulator	1		
TR102,103	2SA733-P1	AF Amplifier	2		
DIODES					
D1,2,5,8,11,12, 13,14	MA150	Detector & AGC	8		
D3,4,6,7	OA99	Meter & Muting Detector	4		
D9,10	2-OA99	FM Detector (Discriminator)	1 pair		
D101,102	RVD10D1	Rectifier	2		SAFETY
D103	MA1120A	12V Zener	1		
D104	SVDSEL103R	FM Stereo Indicator, LED	1		
COILS and TRANSFORMERS					
L1,2	SLAA4N9	FM Antenna Coil	2		
L3	SLOA4N9	FM Oscillator Coil	1		
L4	RLQY15G5	Choke Coil	1		
L5	SLQAN40G-1	Choke Coil	1		
L6,8	SLQX101-2D	Choke Coil	2		
L7	SLOA2C5	AM Oscillator Coil	1		
L101	SLMA1Z3-K	Low Pass Filter	1		
L102	SLQX101-2D	Choke Coil	1		
L501	SLF2D29	AM Antenna Coil	1		
L502	SLAA4W1-3	Balun Coil	1		
T1	SLIA4D51	FM Discriminator IF Transformer	1		
T2,3	SLIA4C242	FM Muting IF Transformer	2		
T5	RLI7W105S-Z	AM IF Transformer, 1st	1		
T6	RLI2C450P-T	AM IF Transformer, 2nd	1		
T501	SLT5K55	Power Transformer	1	○	SAFETY
CERAMIC FILTERS					
CF1	SVFE107MS8A	FM IF Circuit, Red, 10.7MHz	each 1	○	
	SVFE107MS8B	FM IF Circuit, Blue, 10.67MHz			
	SVFE107MS8C	FM IF Circuit, Orange, 10.73MHz			
	SVFE107MS8D	FM IF Circuit, Black, 10.64MHz			
	SVFE107MS8E	FM IF Circuit, White, 10.76MHz			
CF2,3	SVFE107MA8A	FM IF Circuit, Red, 10.7MHz	each 2	○	
	SVFE107MA8B	FM IF Circuit, Blue, 10.67MHz			
	SVFE107MA8C	FM IF Circuit, Orange, 10.73MHz			
	SVFE107MA8D	FM IF Circuit, Black, 10.64MHz			
	SVFE107MA8E	FM IF Circuit, White, 10.76MHz			
	(Use pair ranks as same as CF1, CF2, and CF3.)				
RESISTORS					
R107	ERD14TJ2R2	2.2Ω, 1/4W, ±5%, Carbon	1		
R15	ERD14VJ121	120Ω, 1/4W, ±5%, Carbon	1		
R26	ERD14VJ181	180Ω, 1/4W, ±5%, Carbon	1		
R12,13,16	ERD14VJ331	330Ω, 1/4W, ±5%, Carbon	3		
R8,21,108,109	ERD14VJ681	680Ω, 1/4W, ±5%, Carbon	4		
R11	ERD14VJ102	1kΩ, 1/4W, ±5%, Carbon	1		
R102	ERD14TJ102	1kΩ, 1/4W, ±5%, Carbon	1		
R40	ERD14VJ222	2.2kΩ, 1/4W, ±5%, Carbon	1		
R116	ERD14TJ392	3.9kΩ, 1/4W, ±5%, Carbon	1		
R103,104,105, 106,112,113	ERD14VJ472	4.7kΩ, 1/4W, ±5%, Carbon	6		
R23,110,111	ERD14VJ562	5.6kΩ, 1/4W, ±5%, Carbon	3		
R54,55	ERD14VJ822	8.2kΩ, 1/4W, ±5%, Carbon	2		
R39	ERD14VJ123	12kΩ, 1/4W, ±5%, Carbon	1		
R7,56	ERD14VJ153	15kΩ, 1/4W, ±5%, Carbon	2		
R51	ERD14VJ183	18kΩ, 1/4W, ±5%, Carbon	1		
R5	ERD14VJ393	39kΩ, 1/4W, ±5%, Carbon	1		
R38	ERD14VJ104	100kΩ, 1/4W, ±5%, Carbon	1		
R61	ERD14VJ124	120kΩ, 1/4W, ±5%, Carbon	1		
R60	ERD14VJ394	390kΩ, 1/4W, ±5%, Carbon	1		
VARIABLE RESISTORS					
VR1,2	EVLS3AAOOB24	20kΩ (B), Meter & Muting Adjustment	2		
VR3	EVLS3AAOOB14	10kΩ (B), PLL VCO Adjustment	1		
VR101	EVLS0AAOOB54	50kΩ (B), Separation Adjustment	1		
VR301,302	EWFNVA022A14	10kΩ (A), Output Level Control	1	○	
CAPACITORS					
C8	ECCD1H1R5CC	1.5pF, 50WV, ±0.25pF, Ceramic	1		
C35	ECCD1H050CC	5pF, 50WV, ±0.25pF, Ceramic	1		
C2,4,6,9,20	ECCD1H100KC	10pF, 50WV, ±10%, Ceramic	5		
C11,43	ECCD1H150KC	15pF, 50WV, ±10%, Ceramic	2		
C7	ECCD1H150KR	15pF, 50WV, ±10%, Ceramic	1		
C66,72	ECCD1H220KC	22pF, 50WV, ±10%, Ceramic	2		
C10	ECCD1H390KC	39pF, 50WV, ±10%, Ceramic	1		
C30,31	ECCD1H560K	56pF, 50WV, ±10%, Ceramic	2		
C50	ECCD1H680K	68pF, 50WV, ±10%, Ceramic	1		
C1,19	ECCD1H101K	100pF, 50WV, ±10%, Ceramic	2		
C5	ECCD1H181K	180pF, 50WV, ±10%, Ceramic	1		
C64	ECQS1361JZ	360pF, 125WV, ± 5%, Styrol	1		
C57	ECQS1471JZK	470pF, 125WV, ± 5%, Styrol	1	○	
C3	ECKD1H102MDA	0.001μF, 50WV, ±20%, Ceramic	1		
C14,65,67,68	ECKD1H102PF	0.001μF, 50WV, $^{+100}_{0}$%, Ceramic	4		

Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
C13,34,38,42, 44,45,70	ECKD1H103MD	0.01μF, 50WV, ±20%, Ceramic	7		
C12,26,37,71, 13,104	ECKD1H103PF	0.01μF, 50WV, $^{+100}_{0}$%, Ceramic	6		
C61,62	ECQM05123KZ	0.012μF, 50WV, ±10%, Polyester	2		
C201	ECQM05153KZ	0.015μF, 50WV, ±10%, Polyester	1		
C18,21,22,24, 27,33,36,46, 48,49,51,52, 63,73	ECKD1H223PF	0.022μF, 50WV, $^{+100}_{0}$%, Ceramic	14		
C25,54	ECQM05333KZ	0.033μF, 50WV, ±10%, Polyester	2		
C16,17,28,29, 53,56	ECQM05473KZ	0.047μF, 50WV, ±10%, Polyester	6		
C59	ECEA50MR33	0.33μF, 50WV, Electrolytic	1		
C58,60	ECEA50MR47	0.47μF, 50WV, Electrolytic	2		
C40	ECEA50V1L	1μF, 50WV, Electrolytic	1		
C105,106	ECEA25V3R3L	3.3μF, 25WV, Electrolytic	2		
C32,39,47	ECEA25V4R7L	4.7μF, 25WV, Electrolytic	3		
C23,109	ECEA16V10L	10μF, 16WV, Electrolytic	2		
C108	ECEA6V470L	470μF, 6.3WV, Electrolytic	1		
C101,102,103, 107	ECEA16V470V	470μF, 16WV, Electrolytic	4		
C55	ECEA16V1000V	1000μF, 16WV, Electrolytic	1		
VARIABLE CAPACITORS					
CV1,2,3,4,5 (CT1,2,3,4,5)	ECV5MD34X59G	Tuning Gang, FM/AM (with Trimmer)	1		
COMPONENT COMBINATIONS					
Z1	EXA5DL04C	FM Detector Circuit	1		
Z101	RXAF103P22HD	0.01μF(X2), Hum Cancel	1		
THERMISTOR					
	RRT103	Thermistor, Muting Circuit	1		
FUSE and LAMPS					
F501	XBA2C10TRO	Fuse, 1A(T)	1		SAFETY
F502	XBA2C03TRO	Fuse, 315mA(T)	1		SAFETY
PL1,2,3	XAMR53K	Lamp, Dial & Meter (6.3V 0.25A)	3		SAFETY
METERS					
	SSM61	Meter, Signal	1	○	
	SSM63	Meter, Tuning	1	○	
SWITCHES					
S1	SSR41	Switch, Band Selector	1	○	
S2	SSH307S	Switch, Muting, IF Select & Hi-Blend	1	○	
S3 [X,XG,XGH]	ESB7047	Switch, Power Source	1	○	SAFETY
S3 [XE]	ESB7017	Power Switch (for England [XE] Only)	1		SAFETY
S4	ESE372	Switch, Voltage Selector	1		SAFETY

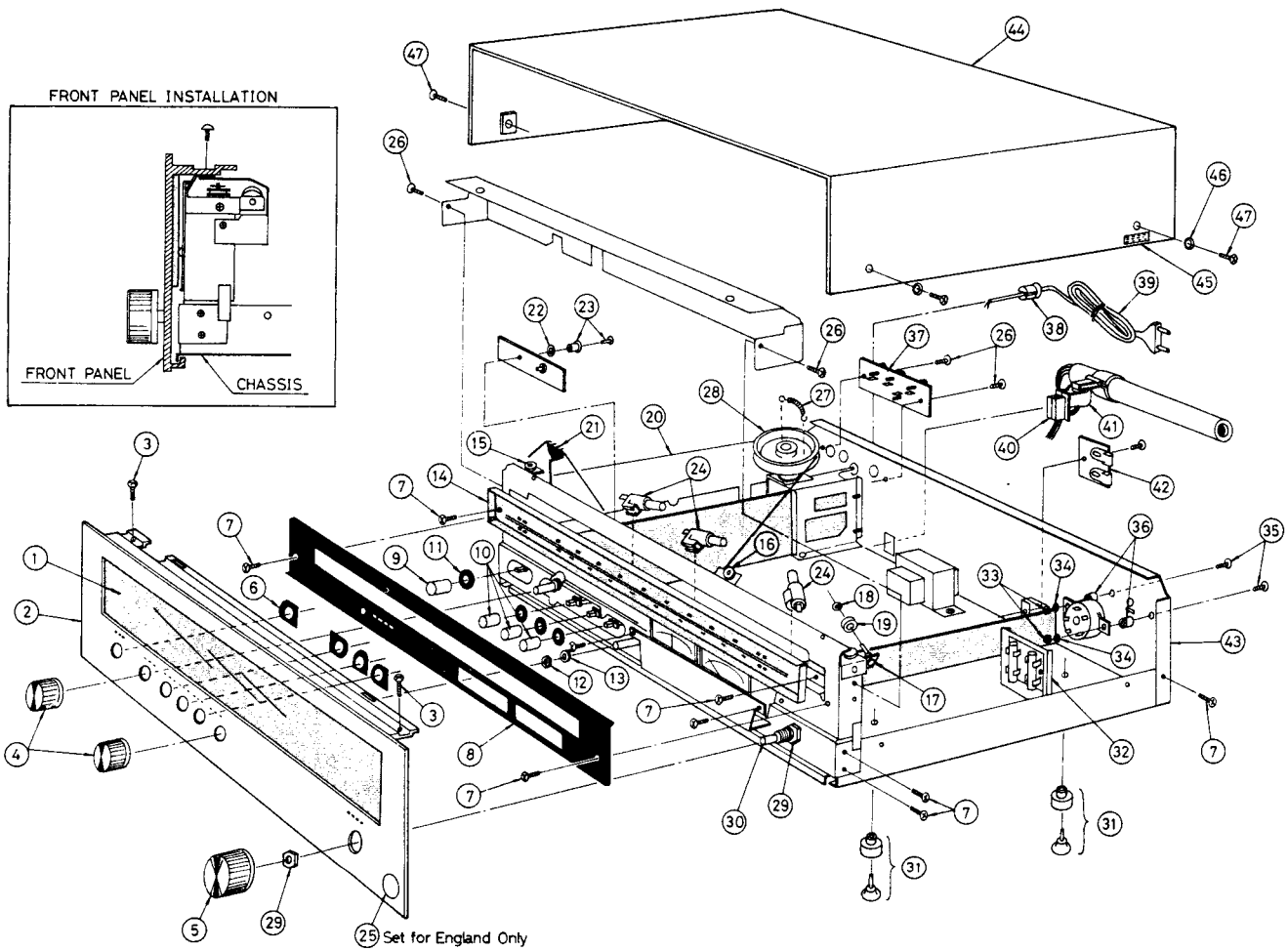
Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
CABINET and CHASSIS PARTS					
1	SGU21	Dial Plate, Plastic	1		
2	SGW7210	Panel, Front	1		
3	XSB3+6FZS	Screw, Front Panel M'tg.	2		
4	SBN545	Knob, Selector & Level Control	2	○	
5	SBN543S	Knob, Tuning (with knob screw)	1	○	
6	SGX6433	Sleeve, Push Switches Button	4		
7	XTB3+8B	Screw, Chassis M'tg.	10		
8	SDH339	Cover, Meter & Dial Scale	1	○	
9	SBC141	Button, Power Switch	1		
10	SBC139	Button, Push Switches	3		
11	SHGA703	Bushing, Push Switches Button	4		
12	XNS8	Nut, Volume Control M'tg.	1		
13	XWV8	Washer, Volume Control M'tg.	1		
14	SKD2371	Scale, Dial	1		
15	SXE693-1	Shaft, Pulley Ass'y	1		
16	SXE697-1	Shaft, Pulley Ass'y	1		
17	SXE695-1	Shaft, Pulley Ass'y	1		
18	RNW150-2	Washer, Pulley Lock	4		
19	RDR20	Pulley, Dial Cord	4		
20	SDZ051-1	Cord, Dial	1 roll		
21	SDP1093-1	Pointer, Dial	1		
	SHP15-1	Paper, Pointer Slider	1		
22	SNWA352	Washer, Nylon	1		
23	SHR401-1	Lock Pin, P.C.B	1		
24	RJV1A	Holder, Dial Lamp	3		
25 [XE]	QQC0689	Label, Made in Japan (Set for England [XE] Only)	1		
26	XTB3+8BFZ	Screw, Light Cover & Terminal M'tg.	4		
27	SDSA4121	Spring, Drum	1		
28	SDD47-1	Drum, Dial Cord	1		
29	XNS11	Nut, Tuning Shaft M'tg.	2		
30	SDT9381	Shaft, Tuning Ass'y	1		
	SDX751S	Flywheel, Tuning Shaft	1		
	XXAS3K5S	Screw, Flywheel M'tg.	2		
31	SKL149	Foot, Set (with Lock Pin)	4		
32	SJFA206	Holder, Fuse	1		
33	XNG3BS	Nut, Voltage Selector Switch	2		
34	XWA3B	Washer, Voltage Selector Switch	2		
35	XSB3+14FZS	Screw, Voltage Selector Switch M'tg.	2		
36	SUDA41	Spacer, Voltage Selector Switch	2		
37	SJFA4402	Terminal, Ext. Antenna	1		
38 [X,XG,XGH]	RHR106	Bushing, AC Cord	1		
38 [XE]	SHR113	Bushing, AC Cord (for England [XE])	1		
39 [X,XG]	SJA95	AC Cord (for [X] & Germany [XG])	1		SAFETY
39 [XE]	SJA73	AC Cord (for England [XE] Only)	1		SAFETY
39 [XGH]	SJA81	AC Cord (for Holland [XGH] Only)	1		SAFETY
40	SMA207	Holder, AM Antenna Coil	1		
41	SMA205	Holder, AM Antenna Coil	1		
42	SJF3207	Terminal, AF Output	1		
43 [X,XG,XGH]	SGP390B	Rear Panel	1	○	
43 [XE]	SGP390-1B	Rear Panel (for England [XE] Only)	1	○	
44 [X,XE]	SKA8330	Cabinet, Brown Wooden (for [X] & England [XE])	1		
44 [XG,XGH]	SKA8331	Cabinet, Black Wooden (for Germany [XG] & Holland [XGH])	1		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
45 [X,XE]	SQXA4067	Caution Label, for Brown Cabinet Use	1	
45 [XG,XGH]	SQXA4112	Caution Label, for Black Cabinet Use	1	
46	XWG4FZ	Washer, Cabinet Screw	4	
47	XTB4+16FFZ	Screw, Cabinet M'tg.	4	
ACCESSORIES				
A1	SSA251	Cord, 75Ω FM Antenna	1	
A2	**SJP2129**	Cord, Connection	1	
A3 [X]	RJP16AS	Plug, AC (for [X] Only)	1	

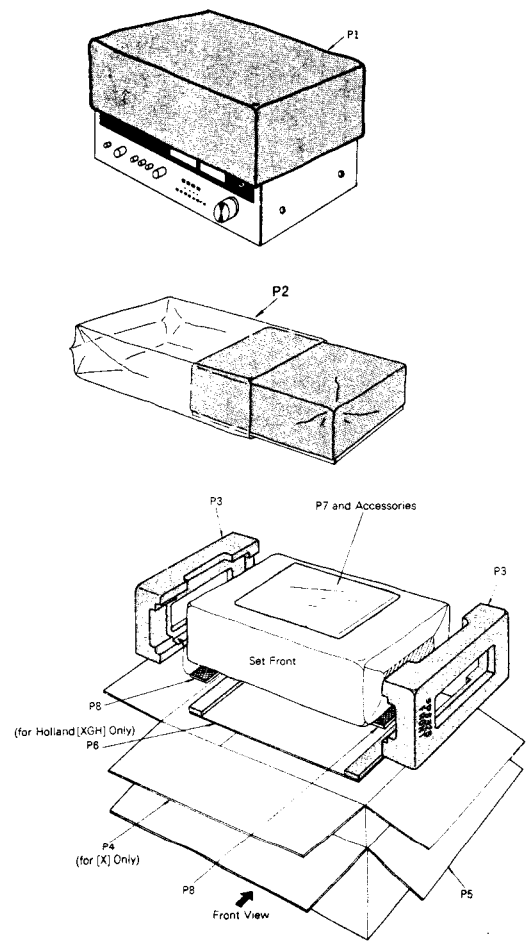
PACKINGS				
P1	SPPA16-1	Soft Cover	1	
P2	SPP163	Polyethylene Bag	1	
P3	SPS325	Pad, Left & Right Side	1	
P4 [X]	SPN5151	Carton Box, Inner (for [X] Only)	1	○
P5 [X]	SPG621	Carton Box, Outer (for [X] Only)	1	○
P5 [XG,XE]	SPG629	Carton Box (for Germany [XG] & England [XE])	1	○
P5 [XGH]	SPG631	Carton Box (for Holland [XGH] Only)	1	○
P6 [XGH]	SPS333	Pad, Under (for Holland [XGH] Only)	1	
P7 [X,XG,XGH]	SQF1161	Printed Matter	1	○
P7 [XE]	SQF1183	Printed Matter (for England [XE] Only)	1	○
P8	SPS481	Pad, Bottom Side	2	○

NOTE :
Set for [X] are European, Asia, Latin America, Oceania, Middle East and Africa.

■ CABINET & CHASSIS PARTS LOCATION



■ PACKING PARTS



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